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ABSTRACT

The Skill Acquisition Measures (SAM) were designed by the Lancaster (Pennsylvania) School District as criterion referenced tests for mathematics. This manual consists of copies of the student test forms for level 5, with additional information for the teacher's use. Each of the test items is presented with the correct answers and the criteria for scoring. In addition, notes are provided if there are special instructions for administering or scoring that particular item. The level 5 skills relate to the following vocabulary terms: (1) billions; (2) prime numbers; (3) average; (4) denominator; (5) numerator; (6) proper fraction; (7) equivalent; (8) improper fraction; (9) mixed numerals; (10) greatest common factor; (11) least common multiple; (12) metric prefixes; (13) area; and (14) volume. (TW)

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SCHOOL DISTRICT OF LANCASTER

SKILL ACQUISITION MEASURES

(SAM)

TEACHER'S MANUAL

ELEMENTARY MATHEMATICS
LEVEL V

BEST COPY AVAILABLE

SKILL AQUISITION MEASURES

The SAM measures are designed as criterion referenced measures, that is, they are intended to measure whether or not a student has mastered a particular skill. The emphasis is on the individual student and his learning progress rather than toward the class of students and the instruction that has taken place. The SAM procedures should generally replace much of the other on-going testing in the classroom.

The tests can be grouped in any way in which the teacher instructs the students. In other words, if the teacher is teaching a unit which includes several objectives from different parts of the curriculum, these objectives can all be tested at once at the end of the unit by pulling the tests for each of the individual objectives and administering them to the students. Testing can be done in groups or individually depending on the situation and the type of test being used.

It should be noted that not all of the skills in the sequence are tested by the SAM materials. Instruction should continue to be based on the skill sequence and not on the SAM Teacher's Manual, otherwise some skills would be missed.

Testing Throughout the Year

Teachers will be administering the tests as they complete their instructional sequences during the year. It is suggested that the tests be administered approximately one week after the instruction has been completed. If the students do not meet the criteria the first time the test is given, the test should be re-administered after additional instruction has taken place. A student should not be tested more than three times with the same test.

On the computerized roster sheets each student's name is listed with his/her previous skills mastery record. Entries during the current year are to be made on the same class record sheet for each skill in the sequence as they are administered. A "+" sign should be recorded if the student meets the criteria stated in the teacher's manual. If the student does not meet the criteria, a "-" sign should be entered. When the student is retested the "+" or "-" sigh should be recorded again. Since the test can be administered three times it is possible to have three signs such as "-," "-," "-" or "-," "-," "+" or "-," "+," "-" all in the same box. When more than one sign appear in the box, please circle the one which corresponds to the last administration of the test. For example "-," "-," "(+)"

Through the year teachers will need to keep a running tabulation on the SAM's which are administered.

At the end of the school year all computerized class rosters should be completed and returned to the Math Office for tabulation. Principals will receive, in September, the results for their buildings to share with the teachers.

The test materials should be kept in a secure location. Used test materials should not be returned to students.

Test Manual

The teachers manual consists of copies of the student test forms with additional information provided for the teacher's use. In the manual each of the test items in the sequence is presented with the correct answers and the criteria for scoring. In addition, notes are provided if there are special instructions for administering or scoring that particular item.

If you have any questions, contact Dr. Stratigos the math/computer coordinator at 6264.

LEVEL 5 VOCABULARY

1. BILLIONS
2. PRIME NUMBERS
3. AVERAGE
4. DENOMINATOR
5. NUMERATOR
6. PROPER FRACTION
7. EQUIVALENT
8. IMPROPER FRACTION
9. MIXED NUMERALS
10. GREATEST COMMON FACTOR
11. LEAST COMMON MULTIPLE
12. PREFIXES: MILLI, CENTI, DEKA, HECTO, KILO DECI
13. AREA
14. VOLUME

No. 5- 289

SKILL: READ NUMBERS UP TO TWELVE DIGITS.

MASTERY: 3 OF 4

ANSWERS:

NOTE: TESTED ORALLY BY TEACHER. THESE ARE ONLY EXAMPLES THAT COULD BE USED.

No. 5- 289

READ THESE NUMBERS.

1. 3,000,000

2. 65, 792, 006

3. 1,260, 431, 207

4. 635, 416, 289, 734

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-290

SKILL: WRITE NUMBERS UP TO TWELVE DIGITS.

MASTERY: 3 OF 4

ANSWERS:

1. 91,024,647
2. 523,749,807,688
3. 6,432,970,000
4. 12,603, 491

NOTE READ THE NUMBERS TO THE CHILD. MAY BE REREAD.

No. 5-290

WRITE THE NUMBER YOUR TEACHER SAYS.

1. _____
2. _____
3. _____
4. _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-291

SKILL: IDENTIFY PLACE VALUE UP TO TWELVE DIGITS.

MASTERY: 3 COMPLETE QUESTIONS OF 4

ANSWERS:

1. 6
   1
   9
   5

2. 4
   8
   2
   1

NOTE:

9

No.5-291

FILL IN THE BLANKS.

5,781,346,290

1. THE _____ IS IN THE THOUSANDS PLACE.

   THE _____IS IN THE MILLIONS PLACE.

   THE _____ IS IN THE TENS PLACE.

   THE _____ IS IN THE BILLIONS PLACE.

267,345.708, 159

2. THE _____ IS IN THE TEN MILLION PLACE.

   THE _____ IS IN THE THOUSAND PLACE.

   THE _____ IS IN THE HUNDRED BILLION PLACE.

   THE _____ IS IN THE HUNDREDS PLACE

NAME:_____

NOT PASSED_____ PASSED_____

(DATE) (DATE)

10

No. 5 - 291 (PAGE 2)
SKILL:

MASTERY:

ANSWERS:

3. 4
9
7
5

4. 6
9
2
8

NOTE:

No. 5-291 (PAGE 2)

73,568,421,009

3. THE _____IS IN THE HUNDRED THOUSAND PLACE.

THE _____IS IN THE ONES PLACE.

THE _____IS IN THE TEN BILLIONS PLACE.

THE _____IS IN THE HUNDRED MILLIONS PLACE.

4. 2,160,849,733

THE _____IS IN THE TEN MILLIONS PLACE.

THE _____IS IN THE THOUSAND PLACE.

THE _____IS IN THE BILLIONS PLACE.

THE _____IS IN THE HUNDRED THOUSANDS

NAME:_____

NOT PASSED_____ PASSED_____
(DATE) (DATE)

No. 5-295

SKILL: DEFINE PRIME NUMBERS

MASTERY: 2 OF 2

ANSWERS:

NOTE:

No. 5-295

1. WRITE THE DEFINITION OF PRIME NUMBERS.

_____

_____

_____

_____

_____

2. GIVE 4 EXAMPLES OF PRIME NUMBERS BETWEEN 1 AND 50.

_____ _____ _____ _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-296

SKILL: RECOGNIZE PRIME NUMBERS FROM 1 TO 50.

MASTERY: 12 OF 15

ANSWERS:

2, 3, 5, 7, 11, 13, 17, 19

23, 29, 31, 37, 41, 43, 47

NOTE

No. 5-296

CIRCLE PRIME NUMBERS.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-299

SKILL: WRITE MULTIPLICATION FACTS 0 THROUGH 12 x 12.

MASTERY: 20 OF 25

ANSWERS:

63	48	84	15	54
64	110	36	96	45
42	32	132	18	54
144	72	12	49	44
66	0	80	18	56

NOTE: CHILD SHOULD NOT SEE TEST UNTIL AFTER DIRECTIONS ARE GIVEN.
TIME LIMIT: 3 MINUTES.

No. 5-299

FIND THE PRODUCTS.

7 x 9	8 x 6	12 x 7	5 x 3	6 x 9
8 x 8	11 x 10	9 x 4	12 x 8	9 x 5
7 x 6	8 x 4	11 x 12	6 x 3	6 x 9
12 x 12	9 x 8	4 x 3	7 x 7	11 x 4
11 x 6	4 x 0	10 x 8	9 x 2	8 x 7

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-300

SKILL: MULTIPLY A 4 OR MORE DIGIT NUMBER BY A 2 DIGIT NUMBER.

MASTERY: 3 OF 4

ANSWERS:

1. 90,896
2. 2,160,830
3. 388,374
4. 2,210,656

NOTE:

No. 5-300

SOLVE:

1. $\begin{array}{r} 3952 \\ \times \quad 23 \\ \hline \end{array}$

2. $\begin{array}{r} 61,738 \\ \times \quad 35 \\ \hline \end{array}$

3. $\begin{array}{r} 9247 \\ \times \quad 42 \\ \hline \end{array}$

4. $\begin{array}{r} 39,476 \\ \times \quad 56 \\ \hline \end{array}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-301

SKILL: MULTIPLY A THREE DIGIT NUMBER BY A THREE DIGIT NUMBER.

MASTERY: 3 OF 4

ANSWERS:

1. 151,585
2. 93,588
3. 330,480
4. 224,613

NOTE:

No. 5-301

SOLVE:

1. $\begin{array}{r} 427 \\ \times\ 355 \\ \hline \end{array}$

2. $\begin{array}{r} 709 \\ \times\ 132 \\ \hline \end{array}$

3. $\begin{array}{r} 612 \\ \times\ 540 \\ \hline \end{array}$

4. $\begin{array}{r} 531 \\ \times\ 423 \\ \hline \end{array}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-302

SKILL: Estimate divisors and quotients.

MASTERY: 3 of 4

ANSWERS:

1. 6
2. 6
3. 30
4. 90

NOTE:

No. 5-302

Make an estimate to find the answer. Put your estimate on the line.

1. How many groups of 60 are in 373? _____
2. How many groups of 90 are in 602? _____
3. There are 5 groups of _____ in 154.
4. There are 7 groups of _____ in 636.

NAME:_____

NOT PASSED_____ PASSED_____

(Date) (Date)

No. 5 - 303

SKILL: DIVIDE A WHOLE NUMBER BY ANY SMALLER TWO DIGIT NUMBER.

MASTERY: 3 OF 4

ANSWERS:

1. 143 R 3
2. 24
3. 211 R 1
4. 4 R 23

NOTE:

No. 5 - 303

SOLVE.

1. $25\overline{)3578}$
2. $16\overline{)384}$
3. $11\overline{)2322}$
4. $57\overline{)256}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE) 28

No. 5-304

SKILL: DIVIDE A WHOLE NUMBER BY ANY SMALLER TWO DIGIT NUMBER WITH ZERO IN THE QUOTIENT.

MASTERY:

ANSWERS:

1. 203 R14
2. 304
3. 304
4. 540 R4

NOTE:

No. 5-304

SOLVE:

1. $17\overline{)3456}$

2. $23\overline{)6992}$

3. $27\overline{)8208}$

4. $35\overline{)18,904}$

NAME _____ 28

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 305

SKILL: COMPUTE AVERAGES OF WHOLE NUMBERS.

MASTERY: 3 OF 4

ANSWERS:

1. 19
2. 40
3. 128
4. 35

NOTE:

No. 5 - 305

COMPUTE THE AVERAGE FOR EACH ROW.

1. 14, 21, 6, 35

2. 58, 87, 32, 16, 7

3. 101, 49, 234

4. 28, 10, 12, 31, 56, 73

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-306

SKILL: IDENTIFY THE TERMS RELATED TO FRACTIONS. (DENOMINATOR, NUMERATOR, PROPER FRACTION, EQUIVALENT, IMPROPER FRACTION, MIXED NUMBERS AND WHOLE NUMBER.)

MASTERY: 6 OF 6

ANSWERS:

1. EQUIVALENT
2. WHOLE NUMBER
3. IMPROPER FRACTION
4. MIXED NUMBERS
5. DENOMINATOR
6. PROPER FRACTION

NOTE:

No. 5-306

FILL IN THE BLANKS USING THE FOLLOWING WORDS:

DENOMINATOR	IMPROPER FRACTION
NUMERATOR	MIXED NUMBERS
PROPER FRACTION	EQUIVALENT
	WHOLE NUMBER

1. $\frac{2}{3}$ AND $\frac{4}{6}$ ARE CALLED _____ FRACTIONS.
2. THE 7 in $7\frac{1}{4}$ IS CALLED THE _____.
3. $\frac{6}{5}$ IS AN _____.
4. $6\frac{1}{4}$ IS A _____.
5. THE 6 IN $\frac{1}{6}$ IS CALLED THE _____.
6. $\frac{4}{7}$ IS A _____.

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 307

SKILL: ADD FRACTIONS WITH LIKE DENOMINATORS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{15}{16}$

2. $\frac{5}{7}$

3. $\frac{7}{9}$

4. $\frac{12}{13}$

NOTE:

No. 5 - 307

SOLVE.

1. $\begin{array}{r} \frac{1}{16} \\ \frac{5}{16} \\ +\ \frac{9}{16} \\ \hline \end{array}$

2. $\begin{array}{r} \frac{3}{7} \\ +\ \frac{2}{7} \\ \hline \end{array}$

3. $\begin{array}{r} \frac{4}{9} \\ \frac{1}{9} \\ +\ \frac{2}{9} \\ \hline \end{array}$

4. $\begin{array}{r} \frac{5}{13} \\ \frac{4}{13} \\ \frac{2}{13} \\ +\ \frac{1}{13} \\ \hline \end{array}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 308

SKILL: SUBTRACT FRACTIONS WITH LIKE DENOMINATORS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{2}{5}$

2. $\frac{3}{10}$

3. $\frac{5}{8}$

4. $\frac{4}{25}$

NOTE:

No. 5 - 308

SOLVE.

1. $\frac{3}{5} - \frac{1}{5} =$

2. $\frac{7}{10} - \frac{4}{10} =$

3. $\frac{7}{8} - \frac{2}{8} =$

4. $\frac{21}{25} - \frac{17}{25} =$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 -309

SKILL: FIND THE GREATEST COMMON FACTOR.

MASTERY: 3 OF 4

ANSWERS:

1. 6 2. 4

3. 3 4. 12

NOTE:

No. 5 - 309

FIND THE GREATEST COMMON FACTOR FOR THE FOLLOWING NUMBER PAIRS.

1. 6, 24 2. 8, 20

____ ____

3. 12, 27 4. 12, 36

____ ____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 310

SKILL: FIND THE LEAST COMMON MULTIPLE.

MASTERY: 3 OF 4

ANSWERS:

1. 24 2. 36

3. 27 4. 14

NOTE:

No. 5 - 310

FIND THE LEAST COMMON MULTIPLE OF THE FOLLOWING PAIRS.

1. 6, 8 2. 9, 12

____ ____

3. 3, 27 4. 2, 7

____ ____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 311

SKILL: COMPLETE A SET OF EQUIVALENT FRACTIONS IN SEQUENCE.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{3}{6}$

2. $\frac{6}{14}$

3. $\frac{12}{20}$

4. $\frac{7}{8}$

NOTE:

No. 5 - 311

COMPLETE THE FOLLOWING EQUIVALENT FRACTION SEQUENCES.

1. $\frac{1}{2}, \frac{2}{4}, \boxed{\quad}, \frac{4}{8}, \frac{5}{10}$

2. $\frac{3}{7}, \boxed{\quad}, \frac{9}{21}, \frac{12}{28}, \frac{15}{35},$

3. $\frac{3}{5}, \frac{6}{10}, \frac{9}{15}, \boxed{\quad}, \frac{15}{25}$

4. $\boxed{\quad}, \frac{14}{16} \quad \frac{21}{24} \quad \frac{28}{32} \quad \frac{35}{40}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5- 312

SKILL: LOCATE THE LOWEST TERM FRACTION IN A SET OF EQUIVALENT FRACTIONS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{1}{3}$

2. $\frac{2}{3}$

3. $\frac{3}{4}$

4. $\frac{5}{6}$

NOTE:

No. 5-312

CIRCLE THE LOWEST TERM FRACTION IN EACH SET.

1. $\frac{5}{15}$ $\frac{1}{3}$ $\frac{7}{21}$ $\frac{3}{9}$

2. $\frac{4}{6}$ $\frac{2}{3}$ $\frac{6}{9}$ $\frac{10}{15}$

3. $\frac{9}{12}$ $\frac{15}{20}$ $\frac{18}{24}$ $\frac{3}{4}$

4. $\frac{5}{6}$ $\frac{40}{48}$ $\frac{10}{12}$ $\frac{25}{30}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5- 313

SKILL: REDUCE A FRACTION TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{9}{16}$

2. $\frac{3}{4}$

3. $\frac{2}{3}$

4. $\frac{1}{2}$

NOTE:

No. 5-313

REDUCE THESE FRACTIONS TO LOWEST TERMS.

1. $\frac{18}{32}$

2. $\frac{12}{16}$

3. $\frac{6}{9}$

4. $\frac{50}{100}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-314

SKILL: ADD FRACTIONS WITH UNLIKE DENOMINATORS

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{5}{6}$

2. $\frac{13}{15}$

3. $\frac{17}{18}$

4. $\frac{13}{24}$

NOTE:

No. 5-314

SOLVE:

1. $\frac{1}{2} + \frac{1}{3} =$

2. $\frac{2}{3} + \frac{1}{5} =$

3. $\frac{5}{6} + \frac{1}{9} =$

4. $\frac{5}{12} + \frac{1}{8} =$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-315

SKILL: SUBTRACT FRACTIONS WITH UNLIKE DENOMINATORS

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{11}{21}$

2. $\frac{13}{30}$

3. $\frac{1}{6}$

4. $\frac{1}{8}$

NOTE:

No. 5-315

SOLVE

1. $\frac{2}{3} - \frac{1}{7} =$

2. $\frac{3}{5} - \frac{1}{6} =$

3. $\frac{1}{2} - \frac{1}{3} =$

4. $\frac{7}{8} - \frac{3}{4} =$

NAME:_____

NOT PASSED_____ PASSED_____

(DATE) (DATE)

No. 5-316

SKILL: RENAME A WHOLE NUMBER AS AN IMPROPER FACTION.

MASTERY: 3 OF 4

ANSWERS:

1. $6 = \frac{12}{2}$

2. $7 = \frac{21}{3}$

3. $12 = \frac{96}{8}$

4. $5 = \frac{20}{4}$

NOTE:

No. 5- 316

FILL IN THE MISSING NUMERATOR OR DENOMINATOR

1. $6 = \frac{\square}{2}$

2. $7 = \frac{21}{\square}$

3. $12 = \frac{96}{\square}$

4. $5 = \frac{\square}{4}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-317

SKILL: CONVERT IMPROPER FRACTIONS TO MIXED NUMBERS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{6}{5} = 1\frac{1}{5}$

2. $\frac{15}{4} = 3\frac{3}{4}$

3. $\frac{21}{8} = 2\frac{5}{8}$

4. $\frac{33}{7} = 4\frac{5}{7}$

NOTE:

No. 5-317

CHANGE EACH IMPROPER FRACTION TO A MIXED NUMBER.

1. $\frac{6}{5} =$

2. $\frac{15}{4} =$

3. $\frac{21}{8} =$

4. $\frac{33}{7} =$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5- 318

SKILL: CONVERT MIXED NUMBERS TO IMPROPER FRACTIONS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{7}{2}$

2. $\frac{37}{5}$

3. $\frac{51}{4}$

4. $\frac{61}{7}$

NOTE:

No. 5-318

CHANGE EACH MIXED NUMBER TO AN IMPROPER FRACTION.

1. $3\frac{1}{2}$

2. $7\frac{2}{5}$

3. $12\frac{3}{4}$

4. $8\frac{5}{7}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 319

SKILL: IDENTIFY DECIMAL PLACE VALUES UP TO HUNDREDTHS.

MASTERY: 3 OF 4

ANSWERS:

1. $21.63 = 20 + 1 + \frac{6}{10} + \frac{3}{100}$

2. $3.06 = 3 + \frac{0}{10} + \frac{6}{100}$

3. 1 IS IN THE HUNDREDTHS PLACE.
   4 IS IN THE TENS PLACE
   8 IS IN THE TENTHS PLACE

4. 4 IS IN THE TENTHS PLACE
   9 IS IN THE TENS PLACE
   7 IS IN THE HUNDREDTHS PLACE.

NOTE: TEACHER MAY DO AN EXAMPLE WITH THE CLASS

No. 5 - 319

FILL IN THE BLANKS

1. $21.63 = _____ + _____ + \frac{___}{10} + \frac{___}{100}$

2. $3.06 = _____ + \frac{___}{10} + \frac{___}{100}$

3. 42.81

   _____ IS IN THE HUNDREDTHS PLACE
   _____ IS IN THE TENS PLACE
   _____ IS IN THE TENTHS PLACE

4. 90.47

   _____ IS IN THE TENTHS PLACE
   _____ IS IN THE TENS PLACE
   _____ IS IN THE HUNDREDTHS PLACE

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 - 320

SKILL: READ DECIMALS UP TO HUNDREDTHS.

MASTERY: 3 OF 4

ANSWERS:

NOTE: TESTED ORALLY. MAY BE DONE IN A GROUP USING FLASH CARDS.

No. 5 - 320

READ THESE DECIMAL NUMBERS.

1. 2.16
2. 123.9
3. 64.71
4. 59.08

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-321

SKILL: WRITE DECIMALS UP TO HUNDREDTHS.

MASTERY: 3 OF 4

ANSWERS:

1. 27.61

2. 4.3

3. 126.83

4. 95.01

NOTE: MAY BE READ MORE THAN ONCE.

No. 5-321

WRITE THE DECIMAL NUMBERS YOUR TEACHER READS.

1. _____

2. _____

3. _____

4. _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5- 322

SKILL: ADD AND SUBTRACT DECIMAL NUMBERS UP TO HUNDREDTHS.

MASTERY: 3 OF 4

ANSWERS:

1. .59 2. 5.89

3. .71 4. 1.38

NOTE:

No. 5-322

SOLVE:

1. $\begin{array}{r} .16 \\ .04 \\ +\ .39 \\ \hline \end{array}$

2. $\begin{array}{r} 4.73 \\ .91 \\ +\ .25 \\ \hline \end{array}$

3. $\begin{array}{r} 1.65 \\ -\ .94 \\ \hline \end{array}$

4. $\begin{array}{r} 3.12 \\ -\ 1.74 \\ \hline \end{array}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-323

SKILL: SOLVE WORD PROBLEMS INVOLVING AN INTERACTION OF ADDITION AND SUBTRACTION

MASTERY: 3 OF 4

ANSWERS:

1. 43

2. 19

NOTE: TEACHER MAY READ WORD PROBLEMS WITH STUDENTS.

No. 5-323

SOLVE.

1. 25 CHILDREN RODE THE BUS ON TUESDAY. 49 RODE THE BUS ON THURSDAY. ON FRIDAY 31 RODE THE BUS. HOW MANY MORE RODE THE BUS ON TUESDAY AND THURSDAY THAN ON FRIDAY?

2. GAIL PICKED 41 QUARTS OF SUGAR PEAS WHILE BOB PICKED 24 QUARTS. THEIR NEIGHBORS PICKED 46 QUARTS. HOW MANY MORE QUARTS DID BOB AND GAIL PICK THAN THEIR NEIGHBORS?

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-323 (PAGE 2)

SKILL: SOLVE WORD PROBLEMS INVOLVING AN INTERACTION OF ADDITION AND SUBTRACTION

MASTERY: 3 OF 4

ANSWERS:

3. 39

4. 5

NOTE: TEACHER MAY READ WORD PROBLEMS WITH STUDENTS.

No. 5-323 (PAGE 2)

3. RAY COLLECTED 35 EGGS ON MONDAY AND 40 EGGS ON TUESDAY. WEDNESDAY HE SOLD 3 DOZEN EGGS. HOW MANY EGGS DID HE HAVE LEFT?

4. DON BOUGHT 6 DOUGHNUTS, HE ATE 3. RON BOUGHT 4 DOUGHNUTS AND ATE 2. HOW MANY DOUGHNUTS DIDN' THE BOYS EAT?

NAME: _____

NOT PASSED _____ PASSED _____
(DATE) (DATE)

No. 5-324

SKILL: SOLVE WORD PROBLEMS INVOLVING AN INTERACTION OF MULTIPLICATION AND DIVISION

MASTERY: 3 OF 4

ANSWERS:

1. 8 MARBLES

2. 45 EGGS

3. 24 DOZEN

4. 3 HOT DOGS

NOTE:

No. 5-324

SOLVE:

1. TOM HAD 24 MARBLES. DICK HAD 24 MARBLES. JANE HAD 24 MARBLES. IF THEY SEPARATE ALL THE MARBLES INTO 9 EQUAL PILES, HOW MANY MARBLES WILL BE IN EACH PILE?

_____

2. FARMER GRAY COLLECTED 81 EGGS IN 9 DAYS. IF HE COLLECTED THE SAME NUMBER OF EGGS EACH DAY, THEN, HOW MANY EGGS DID HE COLLECT THE FIRST FIVE DAYS?

_____

3. SUSAN BAKED 96 COOKIES IN ONE DAY. IF SHE BAKED THE SAME NUMBER EACH DAY, HOW MANY DOZEN (1 DOZEN = 12) COOKIES WOULD SHE BAKE IN 3 DAYS?

_____

4. ON A SCOUTING TRIP THE 5 SCOUT LEADERS EACH BROUGHT 24 HOT DOGS. IF 40 SCOUTS EACH ATE AN EQUAL NUMBER OF HOT DOGS, HOW MANY DID EACH SCOUT EAT?

_____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5 -325

SKILL: SOLVE SIMPLE WORD PROBLEMS BY ADDITION OR SUBTRACTION OF FRACTIONS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{3}{4}$

2. $\frac{1}{8}$

3. ALL $\frac{5}{5}$ $\frac{10}{10}$

4. $\frac{1}{6}$

NOTE:

No. 5 - 325

SOLVE

1. JOHN AND MARY SHARED A CANDY BAR. JOHN ATE $\frac{1}{2}$ OF THE CANDY BAR. MARY ATE $\frac{1}{4}$. HOW MUCH OF THE CANDY BAR DID THEY EAT?

2. BOB WASHED $\frac{7}{8}$ OF THE DISHES WITHOUT BREAKING THEM. WHAT FRACTION OF THE DISHES WERE BROKEN?

3. RON AND DON SHARED A COKE. RON DRANK $\frac{2}{5}$ OF THE COKE. DON DRANK $\frac{6}{10}$ OF THE COKE. HOW MUCH COKE DID THEY DRINK?

4. FRED FED HIS HORSE $\frac{1}{2}$ OF A BAG OF OATS ON MONDAY. THE NEXT DAY HE FED HIS HORSE $\frac{1}{3}$ OF THE BAG. HOW MUCH MORE DID THE HORSE EAT ON MONDAY?

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-326

SKILL: IDENTIFY THE FRACTIONAL VALUES FOR METRIC PREFIXES: MILLI, CENTI, DECI, DEKA, HECTO, AND KILO.

MASTERY 5 OF 6

ANSWERS:

1. CENTI
2. DEKA
3. MILLI
4. HECTO
5. DECI
6. KILO

NOTE:

No. 5-326

USE MILLI, CENTI, DECI, DEKA, HECTO, AND KILO IN THE CORRECT BLANK.

1. $\frac{1}{100}$ = _____
2. 10 = _____
3. $\frac{1}{1000}$ = _____
4. 100 = _____
5. $\frac{1}{10}$ = _____
6. 1000 = _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-327

SKILL: CONVERT METRIC UNITS USING THE PREFIXES MILLI, CENTI, DECI, DEKA, HECTO, AND KILO.

MASTERY: 5 OF 6

ANSWERS:

1. CENTI
2. HECTO
3. KILO
4. MILLI
5. DEKA
6. CENTI

NOTE:

No. 5-327

USE METRIC PREFIXES-MILLI, CENTI, DECI, DEKA, HECTO AND KILO—TO COMPLETE THE FOLLOWING:

1. 100 _____ LITERS = 10 DECILETERS
2. 10 _____ GRAMS = 1 KILOGRAM
3. 1 _____ METERS = 100 DEKA METERS
4. 10 _____ GRAMS = 1 CENTIGRAM
5. 100 _____ LITERS = 1 KILOLITER
6. 10 _____ METERS = 1 DECIMETERS

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-328

SKILL: MEASURE LENGTH TO NEAREST ONE-QUARTER INCH.

MASTERY: 3 OF 4

ANSWERS:

1. $2\frac{1}{2}$ INCHES
2. $1\frac{1}{4}$ INCHES
3. $2\frac{1}{2}$ INCHES
4. $4\frac{1}{2}$ INCHES

NOTE: MAKE SURE THE CHILDREN HAVE A RULER MARKED IN THE APPROPRIATE UNITS.

No. 5-328

MEASURE TO THE NEAREST ONE-QUARTER INCH. WRITE THE ANSWER ON THE LINE.

1. _____
2. _____
3. _____
4. _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-329

SKILL: CALCULATE AREAS OF SQUARES AND RECTANGLES

MASTERY: 3 OF 4

ANSWERS:

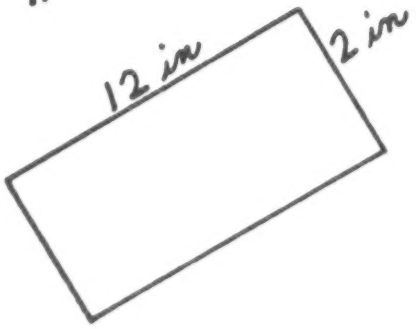
1. 24 SQ IN.
2. 48 SQ. CM.
3. 180 SQ. CM.
4. 20 SQ. IN.

NOTE:

No. 5-329

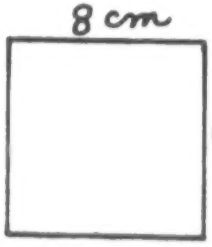
FIND THE AREA OF EACH FIGURE.

1.



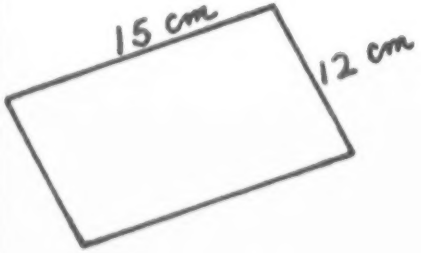
____ square in

2.



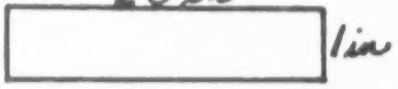
____ square cm

3.



____ square cm

4.



____ square in

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-330

SKILL: CALCULATE VOLUMES OF RECTANGULAR SOLIDS.

MASTERY:

ANSWERS:

1. 24 CU.CM.

2. 60 CU. IN.

3. 28 CU. CM

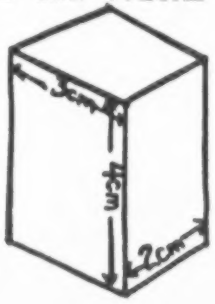
4. 16 CU. IN.

NOTE:

No. 5-330

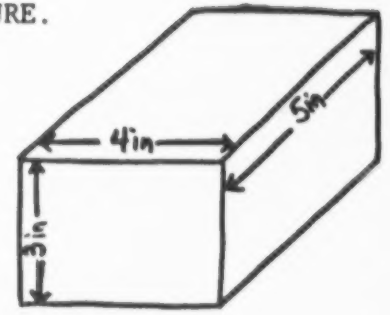
FIND THE VOLUME OF EACH FIGURE.

1.



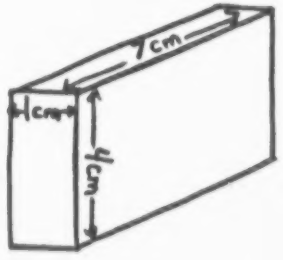
_____ CU.CM

2.



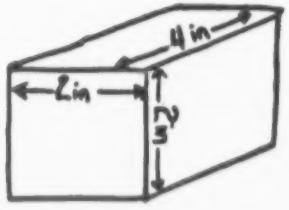
_____ CU. IN.

3.



_____ CU.CM

4.



_____ CU.IN.

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-334

SKILL: SOLVE MULTIPLICATION PROBLEMS INVOLVING MONEY WHERE THE MULTIPLIER IS A WHOLE NUMBER

MASTERY: 3 OF 4

ANSWERS:

1. $131.48
2. $21.39
3. $31.35
4. $16.20

NOTE:

No. 5-334

SOLVE.

1. $32.87 × 4 = _____
2. $7.13 × 3 = _____
3. $6.27 × 5 = _____
4. $5.40 × 3 = _____

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-335

SKILL: SOLVE DIVISION PROBLEMS INVOLVING MONEY WHERE THE DIVISOR IS A WHOLE NUMBER.

MASTERY: 3 OF 4

ANSWERS:

1. $6.16
2. $16.31
3. $22.33
4. $1.55

NOTE:

No. 5-335

SOLVE:

1. $4\overline{)\$24.64}$
2. $5\overline{)\$81.55}$
3. $3\overline{)\$66.99}$
4. $2\overline{)\$3.10}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-336

SKILL: ADD AND SUBTRACT HOURS, MINUTES, SECONDS.

MASTERY: 3 OF 4

ANSWERS:

1. 9 HRS. 5 MIN. 5 SEC.

2. 8 HRS. 5. MIN. 53 SEC.

3. 2 HRS. 49 MIN. 15 SEC.

4. 17 MIN. 35 SEC.

NOTE: ANSWERS MUST BE REDUCED TO LOWEST TERMS.

No. 5-336

SOLVE AND REDUCE TO LOWEST TERMS.

1.	6 HOURS	14 MINUTES	10 SECONDS
	+ 2 HOURS	50 MINUTES	55 SECONDS
2.	4 HOURS	35 MINUTES	50 SECONDS
	+ 3 HOURS	30 MINUTES	3 SECONDS
3.	5 HOURS	4 MINUTES	30 SECONDS
	+ 2 HOURS	15 MINUTES	15 SECONDS
4.	2 HOURS	20 MINUTES	5 SECONDS
	+ 2 HOURS	2 MINUTES	30 SECONDS

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 5-337

SKILL: ADD AND SUBTRACT DAYS, WEEKS MONTHS, YEARS.

MASTERY: 3 OF 4

ANSWERS:

1. 10 YEARS 1 MONTH

2. 4 MONTHS 5 DAYS

3. 1 WEEK 4 DAYS

4. 3 WEEKS 6 DAYS

NOTE: ANSWERS MUST BR REDUCED TO LOWEST TERMS.

No. 5-337

SOLVE THESE: (A MONTH IS 30 DAYS) REDUCE TO LOWEST TERMS.

1. 7 YEARS 2 MONTHS
+ 2 YEARS 11 MONTHS

2. 1 MONTH 20 DAYS
+ 2 MONTHS 15 DAYS

3. 4 WEEKS 2 DAYS
— 2 WEEKS 5 DAYS

4. 7 WEEKS 6 DAYS
— 3 WEEKS 7 DAYS

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)